

1 CLAIMS

2 What is claimed is:

3 Claim 1. An isolated monoclonal antibody or antigen binding fragments  
4 thereof encoded by the clone deposited with the ATCC as Accession Number PTA-5305.

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6 Claim 2. The isolated antibody or antigen binding fragments of claim 1,  
7 wherein said isolated antibody or antigen binding fragments thereof is humanized.

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9 Claim 3. The isolated antibody or antigen binding fragments of claim 1  
10 conjugated with a member selected from the group consisting of cytotoxic moieties,  
11 enzymes, radioactive compounds, and hematogenous cells.

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13 Claim 4. The isolated antibody or antigen binding fragments of claim 1,  
14 wherein said isolated antibody or antigen binding fragments thereof is a chimerized  
15 antibody.

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17 Claim 5. The isolated antibody or antigen binding fragments of claim 1,  
18 wherein said isolated antibody or antigen binding fragments thereof is a murine antibody.

1           Claim 6.       The isolated clone deposited with the ATCC as Accession Number  
2   PTA-5305.

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4           Claim 7.       A binding assay to determine presence of cancerous cells in a tissue  
5   sample selected from a human tumor comprising:

6           providing a tissue sample from said human tumor ;

7           providing an isolated monoclonal antibody or antigen binding fragment thereof  
8   encoded by the clone deposited with the ATCC as Accession Number PTA-5305;

9           contacting said isolated monoclonal antibody or antigen binding fragment thereof  
10   with said tissue sample; and

11          determining binding of said isolated monoclonal antibody or antigen binding  
12   fragment thereof with said tissue sample;

13          whereby the presence of said cancerous cells in said tissue sample is indicated.

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15          Claim 8.       The binding assay of claim 7 wherein the human tumor tissue  
16   sample is obtained from a tumor originating in a tissue selected from the group consisting  
17   of colon, ovarian, lung, prostate, pancreatic and breast tissue.

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19          Claim 9.       A process of isolating or screening for cancerous cells in a tissue  
20   sample selected from a human tumor comprising:

1           providing a tissue sample from a said human tumor ;  
2           providing an isolated monoclonal antibody or antigen binding fragment thereof  
3   encoded by the clone deposited with the ATCC as Accession Number PTA-5305;  
4           contacting said isolated monoclonal antibody or antigen binding fragment thereof  
5   with said tissue sample; and  
6           determining binding of said isolated monoclonal antibody or antigen binding  
7   fragment thereof with said tissue sample;  
8           whereby said cancerous cells are isolated by said binding and their presence in said  
9   tissue sample is confirmed.

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11           Claim 10.     The process of claim 9 wherein the human tumor tissue sample is  
12   obtained from a tumor originating in a tissue selected from the group consisting of colon,  
13   ovarian, lung, and breast tissue.

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15           Claim 11.     An isolated monoclonal antibody or antigen binding fragments  
16   thereof encoded by the clone deposited with the ATCC as Accession Number PTA-5306.

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18           Claim 12.     The isolated antibody or antigen binding fragments of claim 11,  
19   wherein said isolated antibody or antigen binding fragments thereof is humanized.

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1           Claim 13.     The isolated antibody or antigen binding fragments of claim 11  
2 conjugated with a member selected from the group consisting of cytotoxic moieties,  
3 enzymes, radioactive compounds, and hematogenous cells.

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5           Claim 14.     The isolated antibody or antigen binding fragments of claim 11,  
6 wherein said isolated antibody or antigen binding fragments thereof is a chimerized  
7 antibody.

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9           Claim 15.     The isolated antibody or antigen binding fragments of claim 11,  
10 wherein said isolated antibody or antigen binding fragments thereof is a murine antibody.

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12           Claim 16.     The isolated clone deposited with the ATCC as Accession Number  
13 PTA-5306.

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15           Claim 17.     A binding assay to determine presence of cancerous cells in a tissue  
16 sample selected from a human tumor comprising:

17           providing a tissue sample from said human tumor ;

18           providing an isolated monoclonal antibody or antigen binding fragment thereof  
19 encoded by the clone deposited with the ATCC as Accession Number PTA-5306;

1           contacting said isolated monoclonal antibody or antigen binding fragment thereof  
2 with said tissue sample; and  
3           determining binding of said isolated monoclonal antibody or antigen binding  
4 fragment thereof with said tissue sample;  
5           whereby the presence of said cancerous cells in said tissue sample is indicated.  
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7           Claim 18.     The binding assay of claim 17 wherein the human tumor tissue  
8 sample is obtained from a tumor originating in a tissue selected from the group consisting  
9 of colon, ovarian, lung, prostate, pancreatic and breast tissue.

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11          Claim 19.     A process of isolating or screening for cancerous cells in a tissue  
12 sample selected from a human tumor comprising:

13           providing a tissue sample from a said human tumor ;

14           providing an isolated monoclonal antibody or antigen binding fragment thereof  
15 encoded by the clone deposited with the ATCC as Accession Number PTA-5306;

16           contacting said isolated monoclonal antibody or antigen binding fragment thereof  
17 with said tissue sample; and

18           determining binding of said isolated monoclonal antibody or antigen binding  
19 fragment thereof with said tissue sample;

1           whereby said cancerous cells are isolated by said binding and their presence in said  
2 tissue sample is confirmed.

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4           Claim 20.     The process of claim 19 wherein the human tumor tissue sample is  
5 obtained from a tumor originating in a tissue selected from the group consisting of colon,  
6 ovarian, lung, and breast tissue.

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